

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	1515.1 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	-2.0 degrees horizontal

Beam Spread	At 10% of Imax	78.5V x 77.6H
	At 50% of Imax	41.0V x 41.1H
	At 90% of Imax	13.1V x 16.5H

Beam Flux	Total	999.7 lumens per klm.
	To 10% of Imax	796.4 lumens per klm.
	To 50% of Imax	427.0 lumens per klm.
	To 90% of Imax	66.7 lumens per klm.

Upward LOR	0.0 %
Downward LOR	100.0 %

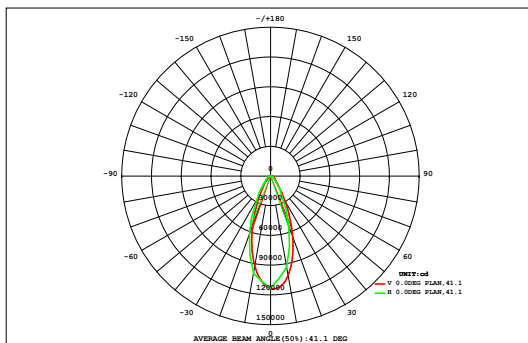
Luminaire Efficiency (Light Output Ratio)	100.0 %
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H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:S
Test Date:03 February 2024

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:7.850m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:480.69V I:1.0658A P:501.53W PF:0.9791 Freq:50.00Hz Lamp Flux:75057.6x1 lm		
NAME: ASD-SPFL7-HV-A500D50-L45	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.:	Shielding Angle:



DATA OF LAMP		Eff:149.66lm/W	
MSDESPFL7-HV-A500D50-L45		Imax (cd)	113723
NOMINAL POWER (W)	500	AVAILABILITY (%)	79.6
RATED VOLTAGE (V)	480	Avai. FLUX (lm)	59731
NOMINAL FLUX (lm)	75057.6	LOR (%)	100.0
LAMPS INSIDE	1	TOTAL FLUX (lm)	75058
TEST VOLTAGE (V)	480	θ @50% (H,V)	41,41DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
80	0.09	1.14	4.80	11.3	19.4	28.1	36.4	42.7	46.2	46.3	43.2	37.1	29.1	20.4	12.2	5.48	1.49	0.14	385	0.00
70	0.20	2.88	10.6	22.7	37.5	53.2	68.0	79.5	85.9	86.0	79.8	68.4	53.8	38.2	23.4	11.2	3.27	0.28	725	0.00
60	0.38	4.99	16.9	35.0	56.9	81.0	106	128	141	141	129	108	82.2	57.3	35.2	17.3	5.34	0.47	1145	0.00
50	0.58	6.96	22.9	46.0	76.4	117	164	212	247	249	216	167	118	77.9	46.5	23.0	7.33	0.67	1798	0.00
40	0.79	8.82	28.0	56.4	101	166	265	406	528	539	426	279	170	102	57.1	27.9	9.04	0.86	3170	1808
30	0.95	10.3	31.8	66.6	127	234	473	871	1231	1258	923	507	245	128	67.4	31.9	10.5	1.02	6219	5348
	1.08	11.4	34.7	75.6	150	328	799	1614	2318	2346	1681	849	343	151	75.5	34.6	11.4	1.12	10821	10107
	1.10	11.9	36.1	80.3	165	404	1077	2223	3151	3168	2266	1114	414	165	80.0	36.0	11.9	1.14	14405	13741
	1.06	11.9	36.3	80.9	166	412	1091	2220	3113	3095	2191	1066	397	161	79.1	35.7	11.8	1.03	14170	13498
	0.86	11.1	34.8	75.9	150	330	799	1579	2206	2184	1524	758	311	145	74.3	34.2	11.1	0.84	10229	9477
-30	0.71	9.73	32.2	67.8	127	234	463	817	1104	1073	753	413	212	121	65.3	31.3	9.54	0.64	5535	4607
-40	0.55	7.77	28.0	57.0	101	161	244	349	423	410	323	224	152	98.3	55.1	27.3	7.54	0.50	2669	1146
-50	0.44	5.92	22.7	46.7	77.4	117	155	184	197	192	173	146	112	74.0	44.9	21.9	5.40	0.38	1576	0.00
-60	0.31	4.07	16.4	35.5	56.7	79.8	105	123	132	131	121	102	77.3	54.9	34.5	15.6	3.68	0.28	1093	0.00
-70	0.21	2.53	10.3	23.4	38.7	53.3	65.9	75.5	80.7	80.2	74.2	64.2	51.6	37.3	22.4	9.47	2.21	0.19	692	0.00
-80	0.13	1.21	4.80	11.3	19.1	27.7	35.6	41.5	44.5	44.1	40.7	34.8	27.0	18.6	10.8	4.35	1.10	0.14	367	0.00
-90	0.06	0.32	0.95	2.01	3.39	4.77	6.06	7.09	7.51	7.29	6.36	5.12	3.73	2.39	1.17	0.43	0.17	0.04	58.9	0.00
	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)	20	30	40	50	60	70	80	90			
Φ t	9.48	113	372	794	1473	2830	5953	10970	15056	15050	10970	5941	2799	1451	785	368	113	9.75	75058	---
Φ a	0.00	0.00	0.00	0.00	36.5	1310	4709	9853	13973	13962	9817	4746	1301	24.7	0.00	0.00	0.00	0.00	---	59731

one-half-peak spread: U:19.5,D:21.9 , L:20.3,R:21.1

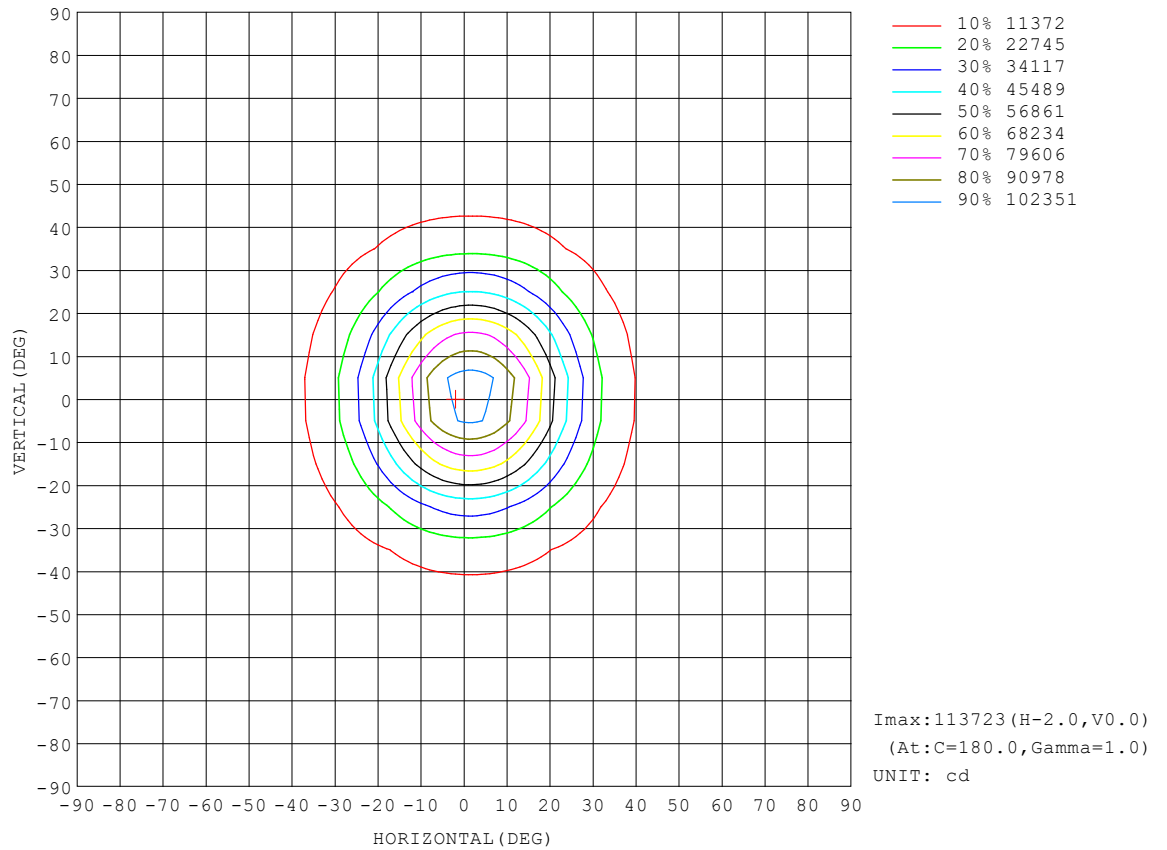
NEMA Beam Type: Type 5

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:S
Test Date:03 February 2024

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:7.850m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:480.69V I:1.0658A P:501.53W PF:0.9791 Freq:50.00Hz Lamp Flux:75057.6x1 lm		
NAME: ASD-SPFL7-HV-A500D50-L45	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.:	Shielding Angle:

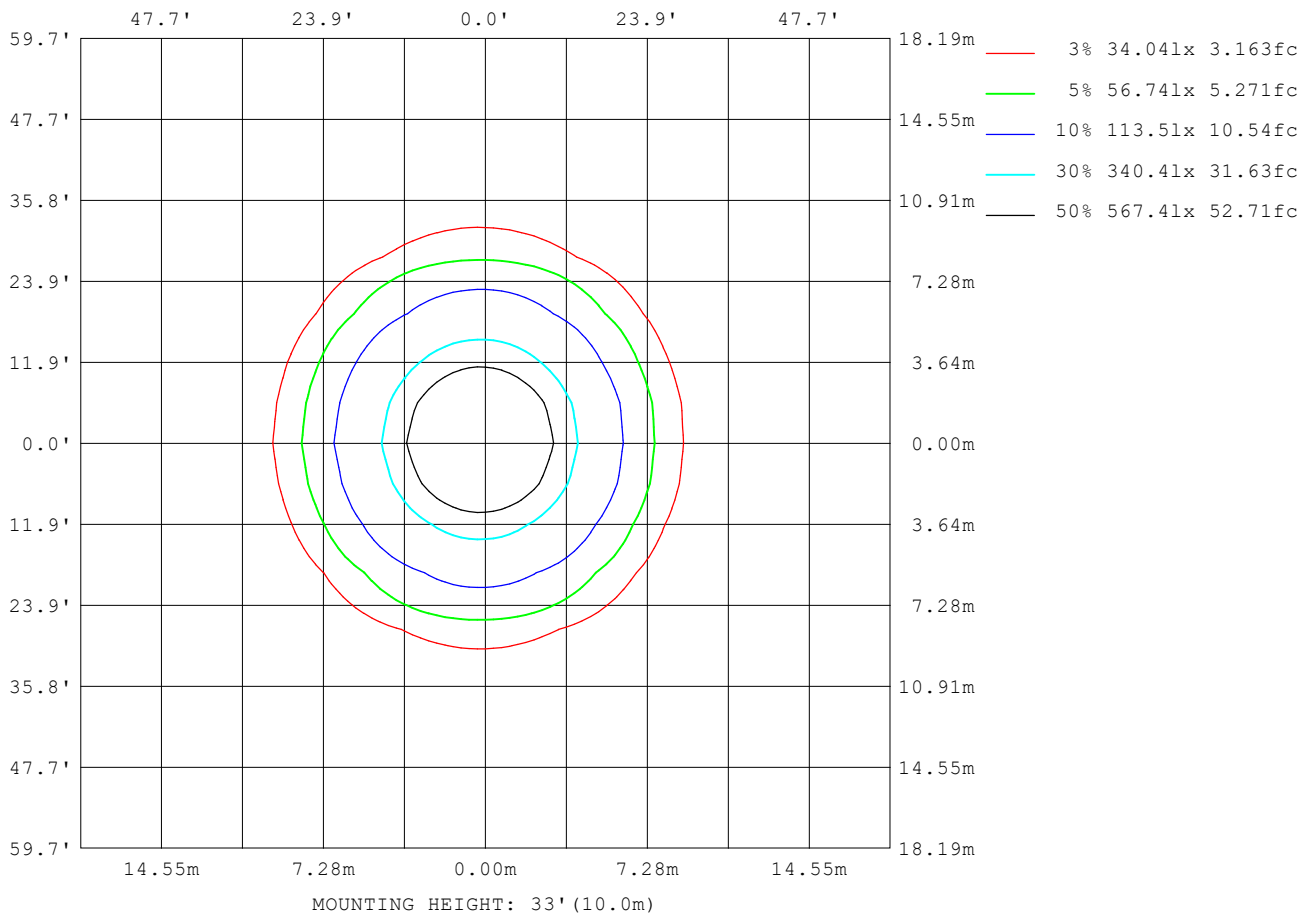


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:S
Test Date:03 February 2024

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:7.850m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

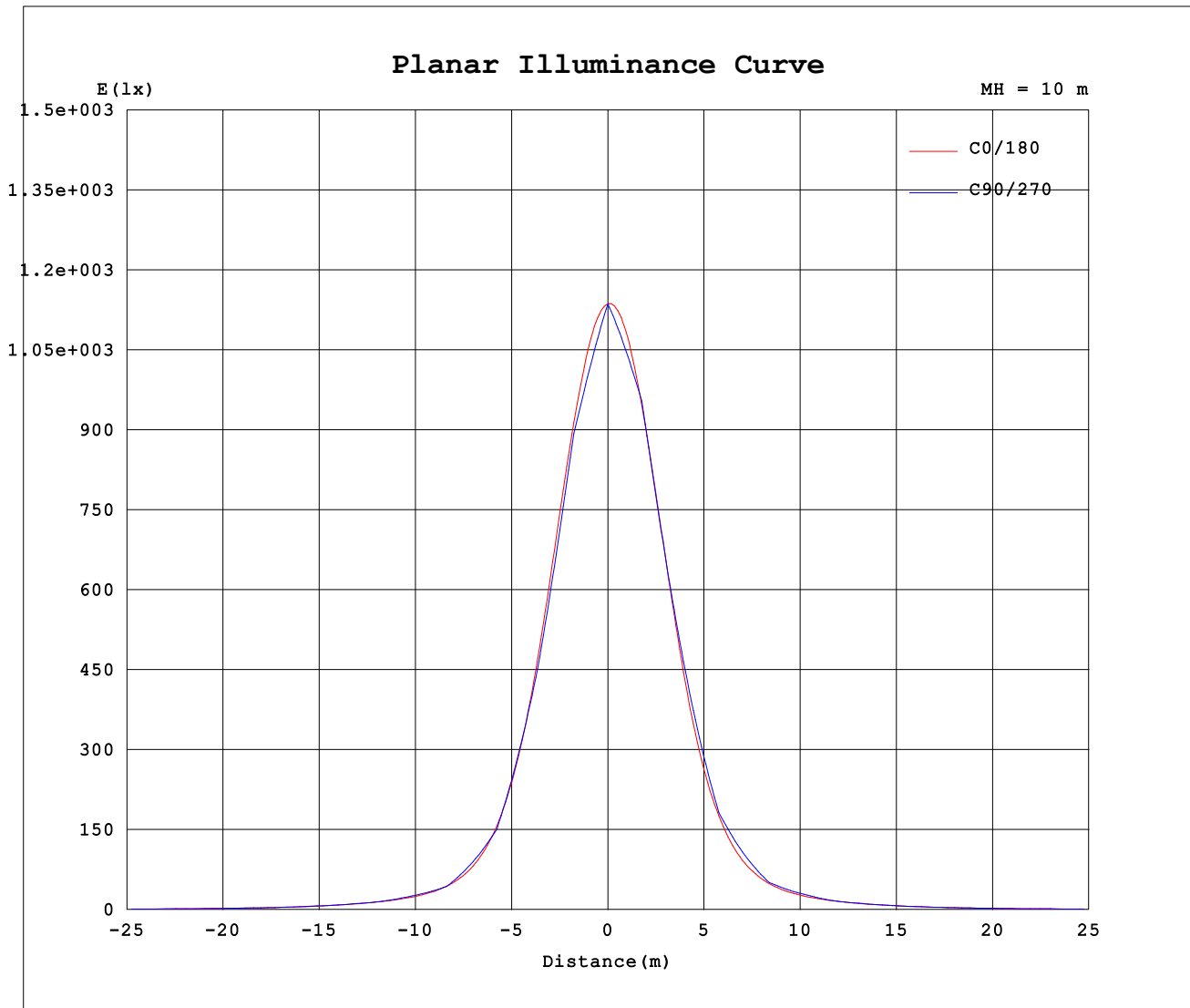
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H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:S
Test Date:03 February 2024

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:7.850m [K=1.0000]
Remarks:

Planar Illuminance Curve

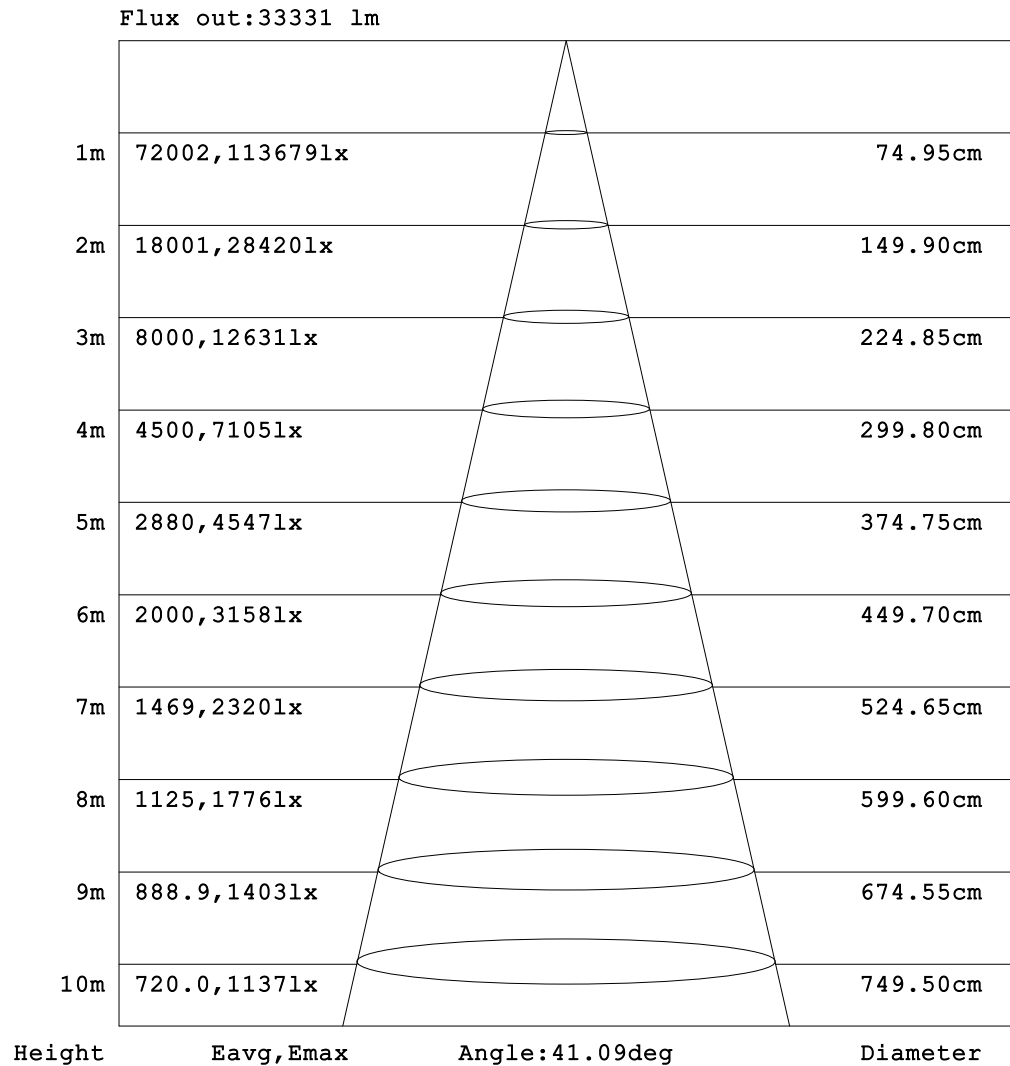


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:S
Test Date:03 February 2024

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:7.850m [K=1.0000]
Remarks:

AAI Figure

Test:U:480.69V I:1.0658A P:501.53W PF:0.9791 Freq:50.00Hz Lamp Flux:75057.6x1 lm		
NAME: ASD-SPFL7-HV-A500D50-L45	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.:	Shielding Angle:



Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:S
Test Date:03 February 2024

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.446
Humidity:65.0%
Test Distance:7.850m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:480.69V I:1.0658A P:501.53W PF:0.9791 Freq:50.00Hz Lamp Flux:75057.6x1 lm		
NAME: ASD-SPFL7-HV-A500D50-L45	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.:	Shielding Angle:

Table--1

UNIT: X100cd

H (DEG) V (DEG)	-90	-85	-80	-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
-90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-80	0.16	0.33	0.54	0.87	1.37	2.01	2.76	3.52	4.26	4.93	5.55	6.13	6.66	7.13	7.53	7.87	8.09	8.20	8.21
-75	0.11	0.23	0.55	1.10	1.96	3.13	4.53	6.01	7.30	8.53	9.65	10.7	11.7	12.6	13.3	13.9	14.4	14.7	14.8
-70	0.15	0.48	1.15	2.27	3.89	5.90	8.10	10.1	11.8	13.5	15.1	16.5	17.8	18.9	19.9	20.5	21.1	21.3	21.2
-65	0.09	0.29	0.94	2.21	4.16	6.71	9.65	12.4	14.8	17.1	19.0	20.8	22.5	24.0	25.2	26.3	27.1	27.7	27.9
-60	0.16	0.74	2.08	4.32	7.38	11.0	14.6	17.6	20.7	23.1	25.2	27.2	29.0	30.6	32.0	33.1	34.0	34.4	34.5
-55	0.06	0.34	1.45	3.62	6.89	11.0	15.3	19.1	22.3	25.5	28.4	31.3	34.5	37.6	40.2	42.4	44.2	45.3	45.8
-50	0.16	1.03	3.13	6.61	11.1	16.2	20.9	24.5	27.9	31.4	35.0	39.2	43.7	47.8	51.2	54.0	55.9	57.0	57.1
-45	0.04	0.42	2.07	5.29	9.98	15.6	20.7	25.1	29.2	33.8	39.2	44.7	50.4	56.0	61.6	67.1	71.8	75.3	76.9
-40	0.17	1.41	4.44	9.30	15.4	21.5	26.0	30.7	35.9	42.7	49.9	57.2	63.8	71.0	78.7	86.1	92.3	96.1	96.6
-35	0.03	0.50	2.71	7.11	13.2	19.8	25.1	30.2	36.3	43.8	52.3	61.2	72.1	85.7	103	123	142	157	164
-30	0.17	1.72	5.70	12.0	19.2	24.8	30.2	36.6	45.5	55.1	64.9	77.8	95.8	120	151	183	211	228	232
-25	0.02	0.58	3.41	9.15	16.3	22.8	28.5	35.0	43.9	54.3	66.0	82.3	108	146	198	258	318	365	388
-20	0.20	2.12	7.40	14.8	21.6	27.5	34.2	43.5	54.5	66.7	84.8	115	163	231	316	407	486	536	543
-15	0.01	0.63	4.25	11.1	18.4	24.5	31.0	39.1	50.1	62.4	79.5	109	160	239	347	475	600	693	738
-10	0.19	2.45	8.99	16.1	22.7	29.0	36.7	47.6	60.0	76.3	105	158	244	371	530	699	836	918	932
-5	0.01	0.66	5.31	12.1	19.2	25.4	32.3	41.5	53.6	67.5	90.1	132	206	322	482	669	843	973	1033
0	0.20	3.39	9.77	16.6	23.2	29.9	38.1	49.6	62.9	82.5	119	185	297	457	657	857	1020	1119	1133
5	0.01	0.83	5.87	12.2	19.2	25.4	32.4	41.6	53.7	68.0	91.3	135	211	331	497	690	867	1002	1065
10	0.20	3.57	9.40	16.1	22.6	29.0	36.8	47.7	60.5	78.0	109	166	259	396	567	744	890	980	997
15	0.00	1.00	5.65	11.6	18.4	24.5	31.0	39.2	50.3	63.4	82.2	115	171	259	379	521	657	761	812
20	0.26	3.45	8.86	15.2	21.6	27.5	34.4	43.7	55.2	68.9	89.9	125	181	260	360	467	559	617	628
25	0.00	0.93	5.08	10.5	16.8	22.6	28.5	35.3	44.2	55.1	68.4	87.7	118	164	225	298	369	426	454
30	0.23	2.87	7.68	13.3	19.3	24.6	30.3	37.0	45.9	56.2	67.9	84.0	107	139	177	217	253	276	281
35	0.00	0.78	4.26	9.02	14.4	19.9	25.0	30.3	36.7	44.5	53.5	64.0	77.4	95.2	118	143	167	187	197
40	0.22	2.36	6.40	11.1	16.3	21.3	25.9	30.9	36.4	43.4	51.1	59.3	67.8	77.6	88.2	98.7	107	113	114
45	0.01	0.61	3.28	7.19	11.6	16.3	20.7	25.0	29.4	34.3	39.9	45.9	52.4	59.2	66.3	73.5	80.0	84.8	87.0
50	0.17	1.63	4.69	8.42	12.5	16.7	20.6	24.3	28.0	31.8	35.9	40.3	45.0	49.3	53.1	56.4	58.7	60.0	60.3
55	0.03	0.43	2.21	5.10	8.43	12.0	15.6	19.0	22.3	25.5	28.7	31.9	35.3	38.5	41.5	44.1	46.1	47.5	48.1
60	0.14	0.99	3.04	5.70	8.66	11.7	14.7	17.6	20.5	23.0	25.3	27.5	29.6	31.4	33.1	34.4	35.4	35.9	36.0
65	0.06	0.28	1.23	3.00	5.20	7.60	10.1	12.5	14.8	17.1	19.1	21.0	22.8	24.4	25.8	27.0	27.9	28.5	28.7
70	0.11	0.47	1.39	2.87	4.62	6.46	8.32	10.2	11.9	13.6	15.1	16.6	18.0	19.2	20.0	20.7	21.2	21.4	21.5
75	0.08	0.17	0.51	1.23	2.25	3.48	4.79	6.12	7.40	8.63	9.76	10.8	11.8	12.8	13.5	14.1	14.5	14.8	14.9
80	0.09	0.20	0.39	0.76	1.33	2.05	2.84	3.62	4.36	5.04	5.69	6.29	6.84	7.30	7.69	8.00	8.20	8.34	8.38
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

H(β) Range:-90 - 90DEG

H(β) Interval: 1.0DEG

Test Speed: HIGH

Temperature:25.3DEG

Operators:S

Test Date:03 February 2024

V(B) Range:-80 - 80DEG

V(B) Interval: 5.0DEG

Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.446

Humidity:65.0%

Test Distance:7.850m [K=1.0000]

Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:480.69V I:1.0658A P:501.53W PF:0.9791 Freq:50.00Hz Lamp Flux:75057.6x1 lm		
NAME: ASD-SPFL7-HV-A500D50-L45	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD LIGHTING CORP	SUR.:	Shielding Angle:

Table--2

UNIT: X100cd

H (DEG) V (DEG)	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	
-90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-80	8.11	7.90	7.58	7.21	6.77	6.29	5.74	5.16	4.54	3.88	3.13	2.37	1.70	1.20	0.86	0.62	0.30	0.16	
-75	14.7	14.5	14.1	13.5	12.9	12.1	11.3	10.2	9.18	8.05	6.84	5.45	3.99	2.70	1.70	1.02	0.58	0.20	
-70	21.0	20.6	20.0	19.1	18.2	17.0	15.6	14.1	12.5	10.8	8.93	6.77	4.68	2.93	1.65	0.85	0.34	0.14	
-65	27.8	27.4	26.7	25.7	24.5	23.1	21.6	19.8	18.0	15.9	13.6	11.1	8.28	5.53	3.27	1.68	0.73	0.20	
-60	34.1	33.4	32.2	30.9	29.2	27.4	25.4	23.4	21.1	18.4	15.4	12.1	8.48	5.26	2.81	1.23	0.39	0.12	
-55	45.6	44.8	43.4	41.4	38.9	36.0	32.8	29.7	26.8	23.8	20.6	17.3	13.3	9.03	5.33	2.60	0.96	0.22	
-50	56.4	54.7	52.2	49.1	45.2	40.8	36.3	32.5	28.9	25.5	21.9	17.8	12.9	8.13	4.30	1.76	0.45	0.11	
-45	76.4	73.8	69.6	64.4	58.8	53.2	47.6	41.9	36.4	31.3	27.0	22.9	18.3	13.0	7.77	3.68	1.25	0.25	
-40	93.7	88.1	80.8	73.0	65.5	58.8	51.8	44.7	37.6	32.0	27.2	22.6	17.4	11.5	5.88	2.31	0.55	0.13	
-35	162	151	134	115	95.4	79.2	66.7	56.6	48.1	40.1	33.1	27.6	22.6	16.9	10.7	4.98	1.59	0.30	
-30	219	195	165	133	105	83.8	68.9	58.3	48.7	39.5	32.3	26.5	21.2	14.9	8.22	3.02	0.66	0.19	
-25	381	346	293	232	174	128	94.4	73.2	59.6	49.1	39.3	31.7	25.6	19.9	13.4	6.66	1.94	0.38	
-20	507	437	348	259	184	128	92.0	70.9	57.7	46.6	36.7	29.5	23.4	17.2	10.4	3.76	0.78	0.28	
-15	726	659	551	422	301	204	135	93.5	70.2	56.2	44.7	35.0	27.9	21.8	15.2	8.37	2.43	0.46	
-10	877	759	600	435	294	189	123	85.2	64.8	51.8	40.4	31.7	25.0	18.6	12.0	5.05	0.89	0.35	
-5	1016	925	776	592	414	270	170	110	77.7	60.3	47.7	36.9	29.2	22.7	16.1	9.47	3.05	0.50	
0	1064	923	734	528	351	219	136	91.1	67.6	53.5	41.5	32.2	25.4	18.9	12.3	5.74	0.99	0.36	
5	1049	956	803	614	429	278	174	112	78.6	60.6	47.9	37.1	29.2	22.8	16.2	9.74	3.53	0.49	
10	940	817	648	470	315	201	128	87.9	65.9	52.3	40.8	31.9	25.1	18.7	12.2	5.99	1.09	0.27	
15	800	728	610	468	331	221	145	98.2	72.3	57.0	45.3	35.4	28.1	21.9	15.5	9.32	3.58	0.45	
20	588	507	403	297	206	141	98.7	74.0	59.0	47.3	37.1	29.8	23.6	17.4	11.3	5.49	1.17	0.15	
25	447	407	343	269	198	142	103	77.3	61.4	49.9	40.1	32.2	25.9	20.2	14.2	8.44	3.24	0.40	
30	265	234	194	154	119	91.9	73.2	60.1	49.6	40.5	32.8	26.8	21.4	15.7	10.1	4.82	0.99	0.06	
35	195	181	158	132	108	86.8	70.9	58.8	49.3	41.0	33.8	28.0	22.8	17.6	12.3	7.20	2.70	0.33	
40	110	102	91.5	80.7	70.5	61.5	53.3	45.8	38.7	32.7	27.6	22.7	18.0	13.1	8.30	3.85	0.78	0.02	
45	86.3	82.8	77.0	70.1	62.8	55.8	49.3	43.1	37.4	32.1	27.4	23.1	18.8	14.3	9.93	5.67	2.05	0.27	
50	59.3	57.4	54.4	50.7	46.7	42.2	37.7	33.5	29.6	25.8	22.1	18.2	14.2	10.3	6.36	2.87	0.60	0.02	
55	48.0	47.0	45.3	43.0	40.3	37.2	33.9	30.5	27.3	24.1	20.9	17.6	14.1	10.7	7.24	3.99	1.38	0.22	
60	35.6	34.8	33.6	32.0	30.2	28.2	26.0	23.7	21.2	18.6	15.7	12.8	9.90	6.96	4.13	1.76	0.41	0.04	
65	28.7	28.3	27.5	26.5	25.2	23.7	22.0	20.2	18.3	16.1	13.9	11.6	9.18	6.79	4.43	2.32	0.80	0.17	
70	21.3	20.9	20.3	19.4	18.4	17.2	15.9	14.4	12.8	11.1	9.26	7.43	5.57	3.73	2.09	0.85	0.27	0.05	
75	14.9	14.7	14.4	13.9	13.2	12.4	11.5	10.6	9.47	8.29	7.05	5.74	4.43	3.13	1.95	0.99	0.40	0.13	
80	8.28	8.12	7.88	7.53	7.10	6.60	6.03	5.42	4.75	4.04	3.28	2.47	1.70	1.05	0.58	0.31	0.16	0.08	
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

H(β) Range:-90 - 90DEG

H(β) Interval: 1.0DEG

Test Speed: HIGH

Temperature:25.3DEG

Operators:S

Test Date:03 February 2024

V(B) Range:-80 - 80DEG

V(B) Interval: 5.0DEG

Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.446

Humidity:65.0%

Test Distance:7.850m [K=1.0000]

Remarks:

50% Beam Angle : 41°-H X 41°-V

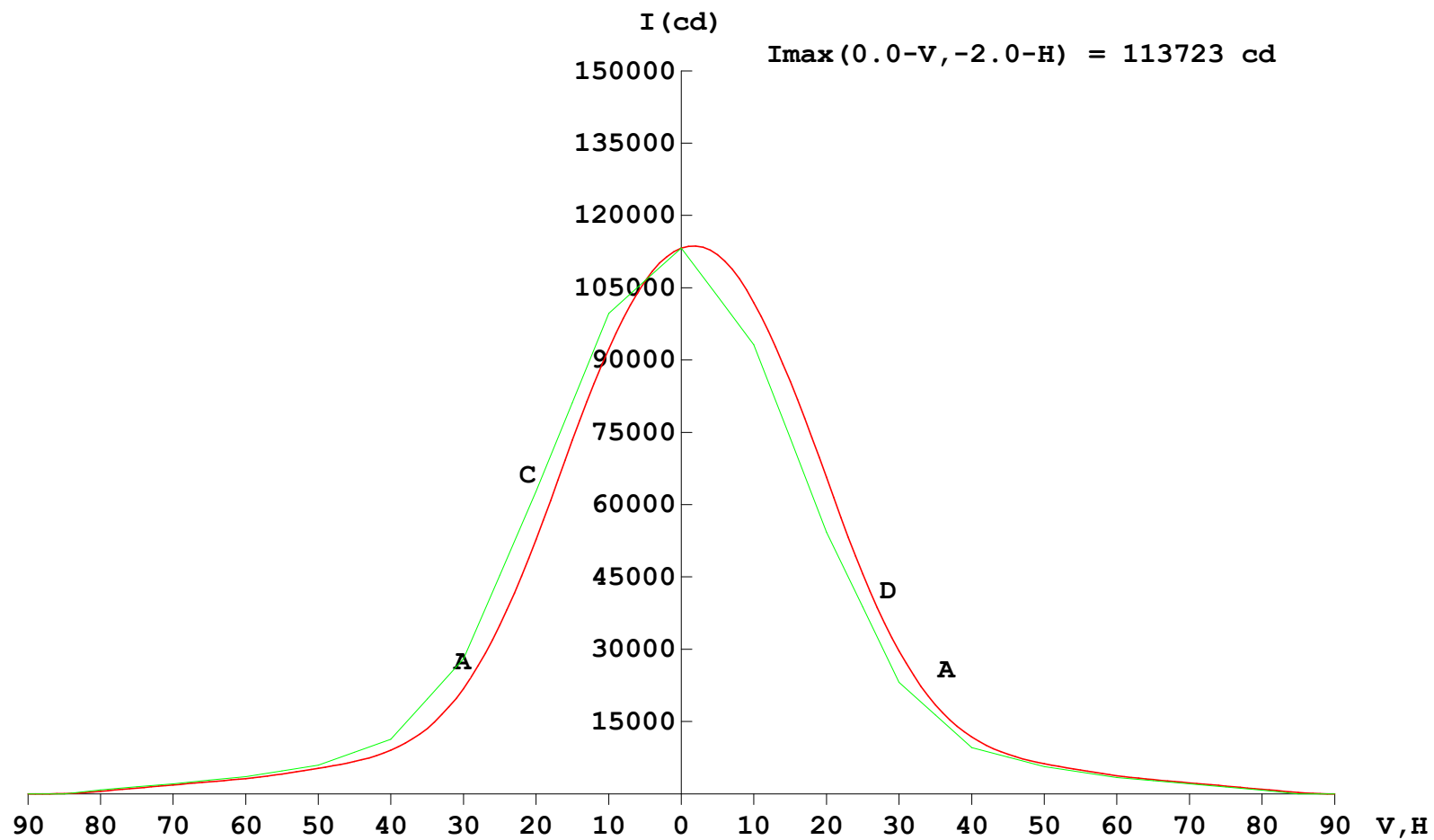
one-half-peak spread: U:19.5,D:21.9 , L:20.3,R:21.1

TOTAL FLUX : 75058 lm

LOR : 100.0%

AVAILABILITY FLUX : 59731 lm

AVAILABILITY : 79.6%



VERTICAL (DEG)	ISOCANDELA DIAGRAM(UNIT:cd)									AREA FLUX DIAGRAM(UNIT:lm)									Φ t	Φ a
										0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90																				
80																				
70										46.3	43.2	37.1	29.1	20.4	12.2	5.48	1.49	0.14	385	0.00
60										86.0	79.8	68.4	53.8	38.2	23.4	11.2	3.27	0.28	725	0.00
50										141	129	108	82.2	57.3	35.2	17.3	5.34	0.47	1145	0.00
40										249	216	167	118	77.9	46.5	23.0	7.33	0.67	1798	0.00
30										539	426	279	170	102	57.1	27.9	9.04	0.86	3170	1808
20										1258	923	507	245	128	67.4	31.9	10.5	1.02	6219	5348
10										2346	1681	849	343	151	75.5	34.6	11.4	1.12	10821	10107
0										3168	2266	1114	414	165	80.0	36.0	11.9	1.14	14405	13741
-10										2095	2191	1066	397	161	79.1	35.7	11.8	1.03	14170	13498
-20										2184	1524	758	311	145	74.3	34.2	11.1	0.84	10229	9477
-30										1073	753	413	212	121	65.3	31.3	9.54	0.64	5535	4607
-40										410	323	224	152	98.3	55.1	27.3	7.54	0.50	2669	1146
-50										192	173	146	112	74.0	44.9	21.9	5.40	0.38	1576	0.00
-60										131	121	102	77.3	54.9	34.5	15.6	3.68	0.28	1093	0.00
-70										80.2	74.2	64.2	51.6	37.3	22.4	9.47	2.21	0.19	692	0.00
-80										44.1	40.7	34.8	27.0	18.6	10.8	4.35	1.10	0.14	367	0.00
-90										7.29	6.36	5.12	3.73	2.39	1.17	0.43	0.17	0.04	58.9	0.00
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	
HORIZONTAL (DEG)																				
Φ t	9.48	113	372	794	1473	2830	5953	10970	15056	15050	10970	5941	2799	1451	785	368	113	9.75	75058	---
Φ a	0	0	0	0	36.5	1310	4709	9853	13973	13962	9817	4746	1301	24.7	0	0	0	0	---	59731